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NOTICE OF ALLOWANCE AND FEE(S) DUE

21967 7590 04302010 HUNTON & WILLIAMS LLP INTELLECTUAL PROPERTY DEPARTMENT 1900 K STREET, N.W. SUITE 1200 WASHINGTON. DC 20006-1109

EXAMINER			
DIBRINO, MARIANNE NMN			
ART UNIT	PAPER NUMBER		
1644	•		
DATE MAILED: 04/30/2010			

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.		
10/715,417	11/19/2003	Eivind Per Thor Straten	60820.000004	5850		
TITLE OF INVENTION: SURVIVIN-DERIVED PEPTIDES AND USE THEREOF						

 APPLN. TYPE
 SMALL ENTITY
 ISSUE FEE DUE
 PUBLICATION FEE DUE
 PREV. PAID ISSUE FEE
 TOTAL FEES) DUE
 DATE DUE

 nonprovisional
 NO
 \$1510
 \$300
 \$0
 \$1810
 07/30/2010

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION NO THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FFE: shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. In equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

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INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where

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SUITE 1200 WASHINGTON	I, DC 20006-1109						(Depositor's name)
			<u> </u>				(Signature)
							(Date)
APPLICATION NO.	FILING DATE		FIRST NAMED INVENTOR		ATTORNE	EY DOCKET NO.	CONFIRMATION NO.
10/715,417 TITLE OF INVENTION	11/19/2003 : SURVIVIN-DERIVEE	PEPTIDES AND USE	Eivind Per Thor Straten THEREOF		608	20.000004	5850
APPLN, TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE	FEE T	OTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$0		\$1810	07/30/2010
EXAM	INER	ART UNIT	CLASS-SUBCLASS]			
DIBRINO, MA	RIANNE NMN	I644	424-185100	•			
"Fee Address" ind PTO/SB/47; Rev 03-0 Number is required. 3. ASSIGNEE NAME A	ondence address (or Cha 3/122) attached. ication (or "Fee Address' 12 or more recent) attach ND RESIDENCE DATA iess an assignee is identi h in 37 CFR 3.11. Comp	nge of Correspondence "Indication form ed. Use of a Customer A TO BE PRINTED ON	2. For printing on the p (1) the names of up to or agents OR, alternati (2) the name of a single registered attorney or a 2 registered patent atto listed, no name will be THE PATENT (print or ty) data will appear on the p T as substitute for filing an	3 registered patent vely, e firm (having as a regent) and the names rneys or agents. If no printed.	member a s of up to o name is	2ified below, the do	cument has been filed for
Please check the appropr	iate assignee category or	categories (will not be p	rinted on the patent):	Individual Cor	poration o	or other private gro	up entity Government
Advance Order -	To small entity discount p	permitted)	b. Payment of Fee(s): (Plea A check is enclosed. Payment by credit car The Director is hereby overpayment, to Depo	d. Form PTO-2038	is attache	d.	
- 11	s SMALL ENTITY statu	is. See 37 CFR 1.27.	☐ b. Applicant is no lon				
interest as shown by the	d Publication Fee (if requeecords of the United Sta	uired) will not be accepte tes Patent and Trademark	d from anyone other than t Office.	he applicant; a regist	ered atto	rney or agent; or th	e assignee or other party in
Authorized Signature				Date			
Typed or printed name				Registration No			
This collection of inform an application. Confiden submitting the complete this form and/or suggesti Box 1450, Alexandria, V Alexandria, Virginia 223	ation is required by 37 C tiality is governed by 35 d application form to the ions for reducing this but firginia 22313-1450. DC 13-1450.	FR 1.311. The informatic U.S.C. 122 and 37 CFR USPTO. Time will vary rden, should be sent to the O NOT SEND FEES OR	on is required to obtain or r 1.14. This collection is est r depending upon the indiv e Chief Information Office COMPLETED FORMS TO	etain a benefit by the imated to take 12 mi idual case. Any con er, U.S. Patent and T D THIS ADDRESS.	e public v inutes to iments or rademark SEND To	which is to file (and complete, including in the amount of tin c Office, U.S. Depa O: Commissioner f	by the USPTO to process) g gathering, preparing, and ne you require to complete atment of Commerce, P.O. for Patents, P.O. Box 1450,

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PTOL-85 (Rev. 08/07) Approved for use through 08/31/2010.



UNITED STATES PATENT AND TRADEMARK OFFICE

NITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Offic Address: COMMISSIONER FOR PATENTS

P O Box 1450 Alexandra, Virgima 22313-1450 www.uspto.gov

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10/715,417	11/19/2003	Eivind Per Thor Straten	60820.000004	5850
21967 75	EXAM	UNER		
HUNTON & WI	LLIAMS LLP	DIBRINO, MARIANNE NMN		
INTELLECTUAL PROPERTY DEPARTMENT			ART UNIT	PAPER NUMBER
1900 K STREET, 1	N.W.	1644		

SLITTE 1200 WASHINGTON, DC 20006-1109

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b) (application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 295 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 295 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 (571)-272-4200.

Application No. Applicant(s) 10/715,417 STRATEN ET AL Notice of Allowability Examiner Art Unit MARIANNE DIBRINO 1611 -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308. This communication is responsive to Applicant's amendment after final rejection filed 3/29/10. 2. The allowed claim(s) is/are 1 and 25. 3. Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) \square All b) ☐ Some* c) ☐ None of the: 1. T Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)). * Certified copies not received: _____. Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. 4. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient. CORRECTED DRAWINGS (as "replacement sheets") must be submitted. (a) Including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached 1) hereto or 2) to Paper No./Mail Date (b) including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d). 6. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL. Attachment(s) 1. | Notice of References Cited (PTO-892) 5. Notice of Informal Patent Application 2. Notice of Draftperson's Patent Drawing Review (PTO-948) Interview Summary (PTO-413), Paper No./Mail Date Information Disclosure Statements (PTO/SB/08). 7. Examiner's Amendment/Comment Paper No./Mail Date 1/26/10 ☐ Examiner's Comment Regarding Requirement for Deposit. 8. X Examiner's Statement of Reasons for Allowance of Biological Material Other Detailed action. /Ram R. Shukla/

Supervisory Patent Examiner, Art Unit 1644

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Art Unit: 1644

DETAILED ACTION

1. Applicant's response filed 3/29/10 is acknowledged and has been entered.

- Applicant's amendment filed 3/29/10 has overcome the prior rejection of record of claims 38-40 under 35 U.S.C. 112, first paragraph, as failing to comply with the written describtion requirement.
- 3. Applicant's amendment filed 3/29/10 has overcome the prior rejection of record of claims 33-35 under 35 U.S.C. 112, first paragraph, scope of enablement.
- Applicant's amendment filed 3/29/10 has overcome the prior rejection of record of claim 24 under 35 U.S.C. 112, first paragraph, as failing to comply with the enablement requirement.
- 5. Applicant's amendment filed 3/29/10 has overcome the prior rejection of record of claims 23, 24, 34 and 35 under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which Applicant regards as the invention.
- Applicant's amendment filed 3/29/10 has overcome the prior rejection of record of claims 21, 23, 36 and 40 under 35 U.S.C. 102(b) as being anticipated by Andersen et al (Cancer Res. 2/2001, 61: 869-872, IDS reference) as evidenced by Andersen et al (Cancer Res. 2001, 61: 5964-5968, IDS reference).
- Applicant's amendment filed 3/29/10 has overcome the prior rejection of record of claims 21, 23, 36 and 40 under 35 U.S.C. 102(b) as being anticipated by Andersen et al (Cancer Res. 2001, 61: 5964-5968, IDS reference).
- Applicant's amendment filed 3/29/10 has overcome the prior rejection of record of claims 21, 23, 34-36 and 40 under 35 U.S.C. 103(a) as being obvious over Andersen et al (Cancer Res. 2001, 61: 5964-5968, IDS reference) in view of U.S. Patent No. 6,572,864 (of record).
- Applicant's amendment filed 3/29/10 has overcome the prior rejection of record of claims 21, 23, 34-36 and 40 under 35 U.S.C. 103(a) as being obvious over Andersen et al (Cancer Res. 2/2001, 61: 869-872, IDS reference) in view of U.S. Patent No. 6.572,864 (of record).
- 10. Applicant's amendment filed 3/29/10 has overcome the prior objection of record of claim 24.

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REASONS FOR ALLOWANCE

11. The following is an Examiner's statement of reasons for allowance:

- a. Claims 1 and 25 are pending and are allowable.
- The terminal disclaimer filed 8/17/09 over application serial no. 10/354,090 is acceptable.
- The terminal disclaimer filed 8/17/09 over application serial no. 10/543,755 is acceptable.
- d. The claimed isolated MHC class I-restricted epitope peptide derived from survivin and composition thereof, said epitope peptide comprising SEQ ID NO: 5, wherein the epitope peptide has a C_{50} value, defined as the concentration of the peptide required for half-maximal binding to HLA-A2, which is at most 20 uM , is not taught or suggested by the prior art.
- e. Any comments considered necessary by Applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."
- 12. Any inquiry concerning this communication or earlier communications from the Examiner should be directed to Marianne DiBrino whose telephone number is 571-272-0842. The Examiner can normally be reached on Monday, Tuesday, Thursday and Friday.

If attempts to reach the Examiner by telephone are unsuccessful, the Examiner's supervisor, Ram Shukla, can be reached on 571-272-0735. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Marianne DiBrino, Ph.D. Patent Examiner Group 1640/Technology Center 1600 Application/Control Number: 10/715,417 Page 4

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/Ram R. Shukla/ Supervisory Patent Examiner, Art Unit 1644